✓ Congratulations! You passed!

Next Item



1/1 points

1.

If you have 10,000,000 examples, how would you split the train/dev/test set?

- 33% train . 33% dev . 33% test
- 60% train . 20% dev . 20% test
- 98% train . 1% dev . 1% test

Correct



1/1 points

2.

The dev and test set should:

Come from the same distribution

Correct

Come from different distributions

Ouiz.	10	auestions

	Have the same number of examples
~	1 / 1 points
	Neural Network model seems to have high variance, what of the following be promising things to try?
	Increase the number of units in each hidden layer
Un-s	elected is correct
	Get more training data
Corre	ect
	Make the Neural Network deeper
Un-s	elected is correct
	Get more test data
Un-s	elected is correct
	Add regularization
Correct	



1/1 points

You are working on an automated check-out kiosk for a supermarket, and are Practical aspects of of property of parts, in ganas and oranges. Suppose your classifier Quiz, 10 questions obtains a training set error of 0.5%, and a dev set error of 7%. Which of the following are promising things to try to improve your classifier? (Check all that

9/10 points (90%)

follow apply.)	ng are promising things to try to improve your classifier? (Check all that
	Increase the regularization parameter lambda
Corr	ect
	Decrease the regularization parameter lambda
Un-s	elected is correct
	Get more training data
Corr	ect
	Use a bigger neural network
Un-s	elected is correct
~	1 / 1 points
5. What i	s weight decay?
	A technique to avoid vanishing gradient by imposing a ceiling on the values of the weights.
0	A regularization technique (such as L2 regularization) that results in gradient descent shrinking the weights on every iteration.
Corr	ect

Quiz, 10 questions

	1/1
	points
5. What h	appens when you increase the regularization hyperparameter lambda?
0	Weights are pushed toward becoming smaller (closer to 0)
Corre	ect
	Weights are pushed toward becoming bigger (further from 0)
	Doubling lambda should roughly result in doubling the weights
	Gradient descent taking bigger steps with each iteration (proportional to lambda)
×	0 / 1 points
7. With th	ne inverted dropout technique, at test time:
	You do not apply dropout (do not randomly eliminate units), but keep the 1/keep_prob factor in the calculations used in training.
	You apply dropout (randomly eliminating units) and do not keep the 1/keep_prob factor in the calculations used in training
0	You apply dropout (randomly eliminating units) but keep the 1/keep_prob factor in the calculations used in training.
This	should not be selected
	You do not apply dropout (do not randomly eliminate units) and do not keep the 1/keep prob factor in the calculations used in training

Quiz, 10 questions



1/1 points

Increasing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause th
following: (Check the two that apply)

	sing the parameter keep_prob from (say) 0.5 to 0.6 will likely cause the ng: (Check the two that apply)
	Increasing the regularization effect
Un-selected is correct	
Corre	Reducing the regularization effect
	Causing the neural network to end up with a higher training set error
Un-selected is correct	
	Causing the neural network to end up with a lower training set error
Correct	



1/1 points

Which of these techniques are useful for reducing variance (reducing overfitting)? (Check all that apply.)

Dropout Correct

Data augmentation

Correct

	Xavier initialization		
Un-se	elected is correct		
	L2 regularization		
Corre	ect		
	Exploding gradient		
Un-se	elected is correct		
	Vanishing gradient		
Un-se	elected is correct		
	Gradient Checking		
Un-se	Un-selected is correct		
~	1 / 1 points		
10. Why do	o we normalize the inputs x ?		
	It makes the parameter initialization faster		
	It makes it easier to visualize the data		
0	It makes the cost function faster to optimize		